

California Higher Education Health Professions Steering Committee

Final Report to the
California Future Health Workforce Commission

July 2018

I. BACKGROUND AND CONTEXT

In January 2018, UC President Janet Napolitano – in consultation and concurrence with California Community College Chancellor Eloy Ortiz Oakley and California State University Chancellor Timothy White – recommended that a small, high-level, intersegmental steering committee be convened to help address and manage issues that might be relevant to the work of the California Future Health Workforce Commission. A memo summarizing the scope of work for the steering committee is included as Appendix A.

The steering committee serves in an ongoing liaison capacity to the Commission and one another. The group holds bi-weekly conference calls and, as a first priority, has worked together to prepare an inventory of the health-related degree programs that are offered by each segment. This report provides: (1) a 2017 snapshot for California’s public higher educational programs, including an overview of each system’s role under California’s Master Plan for Higher Education; (2) a two-page inventory and summary of health related enrollments and programs for each system; and (3) additional information which is included in the appendices.

II. GENERAL OBSERVATIONS

- (1) The California Master Plan for Higher Education was adopted in 1960, when “baby boomers” were reaching college age and vast increases in college enrollment were projected for the years 1960-1975. The Master Plan helped create the largest and most distinguished system of public higher education in the nation. The Master Plan put into place a framework to tame competition between competing higher education segments, resulting in a coherent and unique model of higher education. It codified and strengthened mission differentiation – the University of California (UC), the California State University (CSU), and the California Community Colleges (CCC) each had its own distinctive mission, its own pool of eligible students, and its own governing board.
- (2) The CCC, CSU and UC currently offer a wide variety of degree and certificate programs that prepare individuals for potential careers in health care. In total, more than 42,000 degrees were granted in 2017, across California’s public higher education system. Differences in the type (degree versus certificate), level (bachelors, master’s, or doctoral degree), and areas of study, make it challenging to summarize student data in one table. Detail in this report is presented by higher education segment. Additional campus-level data are provided in the Appendix.
- (3) California’s public higher education segments require sufficient, stable resources to adequately train the health workforce of tomorrow. Future changes in the size and scope of health professions training programs should recognize the inherently higher costs associated with educational programs involving patient care and should include mechanisms to supplement (rather than supplant) existing resources.
- (4) The CCC, CSU and UC system are committed to working together to the extent possible when developing educational programs and enrollment plans to help address state and/or national health workforce needs. For example, because all three segments train nurses for California, there is an opportunity for public higher education to work together on strategies for meeting state nursing needs. Increasing community college

transfers to CSU and UC nursing programs, including successful pathways for meeting this goal, could also facilitate preparation of new baccalaureate and master's-trained nurses who can better meet state and regional needs.

III. SNAPSHOT OF CALIFORNIA PUBLIC HIGHER EDUCATION

	CCC	CSU	UC
Number of campuses	114	23	10
Total enrollment, 2017	2,149,432	484,300	273,179
Faculty headcount	18,196 [^]	26,858	22,700
Percent of underrepresented minorities (URM)	50%+	50%+	31%
Percent of students who are California residents	91.3%	95%	82.8%
First-generation students (undergrad)	40%	33%	42%
Transfers from CA Community Colleges (undergrad)	N/A	93%	28%
Health-related program enrollments (% of total system enrollment)	46,739 (2.2%)	57,816 (11.9%)	15,000 (5.5%)
Health-related degrees granted, 2016-17	10,458	22,954	9,405

[^]This represents head count of academic, tenured/tenure track faculty only for CCC. In addition, there are 42,044 academic, temporary faculty in the CCC system.

Information regarding each of California's public higher educational systems is included in the section that follows.

IV. DETAIL BY PUBLIC HIGHER EDUCATION SEGMENT

- A. California Community College System
- B. California State University System
- C. University of California System

A. California Community College System

1) Role pursuant to the State's Master Plan

The California Community College (CCC) system was created in 1960 under the California Master Plan for Higher Education. In accordance with the state's Master Plan, the CCCs are to offer lower-division instruction that is transferable to four-year universities, provide remedial and career technical training, and grant associate degrees and certificates. As an exception to the Master Plan, in 2015, the California Community Colleges Board of Governors (BOG) approved, on a pilot basis, bachelor's degree programs including the health sector occupations of respiratory therapy, dental hygiene, and health information management.

2) Total number of students enrolled and number of campuses

The California Community Colleges (CCC) comprise the largest system of higher education in the nation, with 2.1 million students currently attending 114 colleges. California Community Colleges educate a large number and proportion of California Licensed Vocational Nurses and nurses trained at the associate degree level.

3) Variety of degree programs offered

California Community Colleges (CCC) offer associate degrees and short-term job training certificates in more than 175 fields. In 2016-17, the CCCs conferred 243,796 degrees and certificates inclusive of 38,663 Associate Degrees for Transfer. Twenty-nine percent of University of California and 51 percent of California State University graduates started at a California Community College. CCCs are the largest provider of workforce readiness in the state and nation, educating more than 100,000 individuals each year in industry-specific workforce skills.

4) Average debt load of students

The vast majority (79%) of eligible community college students do not borrow through federal loans. On average, \$4,150 is borrowed to help cover housing and food, books and supplies, transportation to school, and personal expenses. California residents currently pay \$46 per unit to enroll in community college courses. As illustration of cost, a full-time student enrolled in 12 units would pay \$46 x 12 units, or \$552 per semester.

5) Financial aid information

In 2016-17, \$2.80 billion was distributed to 1,011,000 students – 43 percent of the total CCC student population, with the average award totaling \$2,771. In 2017-18 Community College Completion Grants were added at all 114 community college campuses to incentivize full-time attendance (15 units or more per term). The California College Promise Grant, formerly known as the Board of Governors Fee Waiver program, provides approximately 1 million students – nearly half of the 2.1 million students enrolled at California Community College campuses – with free tuition.

California Community College System

CCC Health-Related Degrees Granted, 2016-17				
Major Title	Associate in Science for Transfer (A.S.-T)	Associate in Arts for Transfer (A.A.-T)	Associate of Science (A.S.)	Associate of Arts (A.A.)
Athletic Training and Sports Medicine-122800	0	0	37	4
Cardiovascular Technician-121300	0	0	52	0
Certified Nurse Assistant-123030	0	0	0	0
Clinical Medical Assisting-120810	0	0	56	0
Community Health Care Worker-126100	0	0	5	0
Dental Assistant-124010	0	0	152	2
Dental Hygienist-124020	0	0	262	34
Dental Laboratory Technician-124030	0	0	4	0
Diagnostic Medical Sonography-122700	0	0	62	0
Emergency Medical Services-125000	0	0	11	0
Health Information Technology-122300	0	0	169	179
Health Information Coding-122310	0	0	0	0
Health Occupations, General-120100	0	0	71	181
Health Professions, Transfer Core Curriculum-126000	0	0	936	0
Kinesiology-127000	9	1,099	5	34
Licensed Vocational Nursing-123020	0	0	255	23
Massage Therapy-126200	0	0	5	6
Medical Assisting-120800	0	0	237	16
Medical Laboratory Technology-120500	0	0	67	2
Mortuary Science-125500	0	0	57	1
Occupational Therapy Technology-121800	0	0	82	0
Orthopedic Assistant-121400	0	0	7	0
Paramedic-125100	0	0	117	8
Pharmacy Technology-122100	0	0	74	25
Phlebotomy-120510	0	0	0	0
Physical Therapist Assistant-122200	0	0	80	0
Physician's Assistant-120600	0	0	71	0
Polysomnography-121100	0	0	16	0
Psychiatric Technician-123900	0	0	117	0
Radiologic Technology-122500	0	0	451	0
Registered Nursing-123010	0	0	4,799	136
Respiratory Care/Therapy-121000	0	0	325	0
Speech/Language Pathology and Audiology-122000	0	0	65	35
Surgical Technician-121700	0	0	12	5
Total Health Degrees Granted	10,458	1,099	8,659	691

B. The California State University System

1) Role pursuant to the State's Master Plan

The California State University (CSU) system was created in 1960 under the California Master Plan for Higher Education. In accordance with the state's Master Plan, the CSU draws its students from the top third of the state's high school graduates and is California's primary undergraduate teaching institution. Continuing to expand its educational scope and help meet California's workforce demands for skilled professionals, the CSU offers independent doctor of education, doctor of nursing practice and doctor of physical therapy programs at numerous campuses, by an exception to the Master Plan. The doctor of philosophy is also offered through a joint partnership with other public and private universities in California.

2) Total number of students enrolled and number of campuses

The CSU is the nation's largest four-year public university system, with 23 campuses and eight off-campus centers. One in ten employees in California is a CSU Graduate. In fall 2017, the CSU enrolled 484,297 students, including 54,521 graduate and postbaccalaureate students.

3) Variety of degree programs offered

The CSU offers 441 total undergraduate and graduate degree programs across the state. In 2016-17, the CSU conferred 119,274 degrees. In 2015-16, the CSU produced one half the baccalaureate degrees granted in California, including 20,281 master's degree graduates to serve the workforce.

4) Average debt load of students

During 2015-16, the majority of CSU students (54 percent) carried no indebtedness. For students who borrowed, the average CSU student loan debt at graduation was \$16,625, which is \$6,110 lower per student than the average for California baccalaureate recipients.

5) Financial aid information

In 2016-17, \$4.25 billion was distributed to 380,000 students—80 percent of the total CSU student population, with the average award totaling \$11,160. Presidential Scholars' programs, which provide full scholarships to National Merit and high school valedictorians, are also available at many CSU campuses.

In 2016-17, the CSU provided State University Grants to 29 percent of undergraduate students and 25 percent of postbaccalaureate or graduate students. Sixty-two percent of all CSU undergraduate students had tuition costs completely covered by State University Grants, Cal Grants or waivers.

6) Health-Related Enrollment and Degrees Granted

CSU Health Degree Program Enrollment Fall 2017				
Discipline Division	Undergraduate	Master's	Doctoral	Total
Health Professions	21,584	3,955	868	26,407
Psychology	29,407	1,253	57	30,717
Gerontology	265	66	0	331
All Health Discipline Divisions	51,256	5,274	925	57,455

California State University System

CSU Health-Related Degrees Granted, 2016-17			
	Bachelor's	Master's	Doctorate
Major Title/Degree Awarded			
Applied Behavior Analysis	0	29	0
Audiology	0	0	8
Behavioral Science	87	0	0
Clinical/Biomedical Laboratory Science	44	0	0
Clinical/Community Psychology	0	0	12
Communicative Disorders	923	240	2
Counseling Psychology	0	16	0
Counseling and Guidance	0	790	0
Dietetics/Food Admin/Nutrition	698	73	0
Doctor of Nursing Practice	0	0	37
Doctor of Physical Therapy	0	0	211
Environmental/Occupational Health	50	18	0
Genetic Counseling	0	9	0
Gerontology	93	23	0
Health Care Management/Administration	520	271	0
Health Science/Health Studies	2,055	24	0
Human Development	867	0	0
Human Factors/Ergonomics	0	16	0
Human Services, Collaborative	528	0	0
MPH Public Health and MSW Social Work (concurrent)	0	2	0
Medical Physics/Radiological Health Physics	0	2	0
Nursing (RN-to-Nursing Degree)	1,279	541	0
Nursing, Pre-Licensure	1,714	52	0
Occupational Therapy	1	146	0
Psychology	7,341	382	0
Public Health	380	248	13
Radiologic Sciences	24	0	0
Rehabilitation Counseling	112	49	0
School Psychology	0	41	0
Social Work	986	1,668	0
Speech Language Pathology (Entry-Ready)	102	175	0
Speech Language Pathology (Without Communicative Disorders Background)	52	0	0
Total Health Degrees Granted	22,954	17,856	4,815
		283	

C. University of California System

1) Role pursuant to the State's Master Plan

Under California's Master Plan for Higher Education, the University of California (UC) is delegated the primary responsibility in public higher education for doctoral education. For the health professions, this means that UC is the only California public institution authorized to grant the following professional degrees: Doctor of Dental Science, Doctor of Medicine, Doctor of Optometry, Doctor of Pharmacy and Doctor of Veterinary Medicine. Along with other private educational institutions, UC also provides doctoral education leading to Doctor of Philosophy degrees in nursing and public health, as well as the Doctor of Public Health degree. Current exceptions to the Master Plan in health-related fields allow CSU to independently offer the Doctor of Physical Therapy, Doctor of Nursing Practice, and Doctor of Audiology clinical doctoral programs.

2) Total number of students enrolled & number of campuses

The University of California began 150 years ago with a simple, but revolutionary idea: College should be available to everyone. Today, the UC enrolls 273,000 students across its 10 campus system. The University's fundamental missions are teaching, research and public service.

UC operates the largest health sciences instructional program in the nation, enrolling more than 15,000 students annually. The systemwide instructional program includes six schools of medicine and three smaller medical education programs (located at Berkeley, in Fresno and at the Charles R. Drew University of Medicine and Science in Los Angeles); four schools of nursing; two schools each of dentistry, pharmacy, and public health; and one school each of optometry and veterinary medicine. The University's 18 health professional schools and 12 hospitals at five academic medical centers are referred to collectively as UC Health.

3) Variety of degree programs offered

UC offers more than 160 academic disciplines, and more than 800 graduate degree programs.

4) Average debt load of students

Overall, UC cumulative loan debt average is lower than other public four-year institutions and private institutions. During 2015-16, forty seven percent of UC undergraduates graduated with no debt at all. For those who borrowed, the average student loan debt at graduation was about \$20,900.

Pursuing education in a health professional school (beyond an undergraduate degree) can be very expensive. Increases in tuition over the past decade have coincided with increased debt burdens for health professional degree students. Average student debt of graduates of UC schools of dentistry, veterinary medicine, medicine, pharmacy, optometry and nursing (for those with debt in 2015-16) vary (i.e., an estimated \$72K for Nursing; \$154K for Medicine; and \$200K for Dentistry), and are representative of debt patterns for other health science professional programs.

5) Financial aid

In addition to tuition, many UC health sciences students also pay Professional Degree Supplemental Tuition (PDST) to support their instructional programs. During the State's fiscal crisis of the early 2000s, State support for UC's professional schools was substantially reduced and professional fees increased dramatically to offset lost State revenue. More recently, PDST has increased in order to maintain quality and academic excellence. At least one-third of the revenue from professional school fees is used to provide financial aid to help maintain the affordability of a professional school education. Nonetheless, the increasing educational debt burden for graduates of UC's professional degree health science programs raises concerns about the University's ability to recruit the most highly qualified students. Anticipated debt levels are also identified as a major concern by students who have previously expressed interest in primary-care careers and/or practicing in a medically underserved community or health professional shortage area.

University of California System

UC Health-Related Degrees Granted, 2016-17			
	Bachelor's	Master's	Doctorate
Major Title/Degree Awarded			
Audiology (AuD)^			8
Dental Hygiene		9	
Doctor of Dental Surgery (DDS)			214
Doctor of Medicine (MD)			706
Doctor of Optometry (OD)			58
Doctor of Pharmacy (PharmD)			176
Doctor of Physical Therapy (DPT)*			52
Doctor of Veterinary Medicine (DVM)			136
Nursing	102	318	44
Nutrition	316	6	7
Physician Assistant		19	
Psychology	5,154	111	138
Public Health	984	405	91
Social Welfare	142	196	13
Total Health Degrees Granted	9,405	1,064	1,643

^ Joint program between University of California, San Diego and San Diego State University.

* Joint program between University of California, San Francisco, and San Francisco State University.

Information on the more than 5,000 residents in medicine and other health professions trained by UC is provided in the Appendix. These individuals do not earn a degree since they are in post-graduate training, and thus, are not listed in the table above.

V. APPENDICES

- A. Memo Summarizing the Steering Committee Scope of Work
- B. Steering Committee Members
- C. State maps showing campus locations for each public higher education system
- D. California Community College System – campus level data
- E. California State University System – campus level data
- F. Additional Information Describing CSU Health-Related Degree Programs
- G. University of California System – campus level data
- H. Additional Information Describing UC Residency Programs

Appendix A – Memo Summarizing the Steering Committee Scope of Work

UNIVERSITY OF CALIFORNIA

BERKELEY □ DAVIS □ IRVINE □ LOS ANGELES □ MERCED □ RIVERSIDE □ SAN DIEGO □ SAN FRANCISCO



SANTA BARBARA □ SANTA CRUZ

Cathryn L. Nation, MD
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November 30, 2017

TO: UC President Janet Napolitano
CSU Chancellor Timothy White
CCC Chancellor Eloy Ortiz Oakley

FR: UC Associate Vice President Cathryn Nation

RE: Follow-Up on our November 3rd Conference Call regarding the California Future Health Workforce Commission

As follow-up to our call on November 3rd to discuss how best to align the priorities and needs of the UC, CSU, and CCC systems as these relate to the work and deliberations of the Commission, I was asked to draft a proposal outlining how we might go about this intersegmental effort and how best to manage it under the overall umbrella of the Commission's charge and timeline for completing its work. What follows is my suggestion for creating a small, higher education intersegmental steering committee, including what it might do and how and when next steps could occur. President Napolitano and I have discussed this and the following also reflects her input and support of this approach. She asked that I send this along to you all for your input and we will welcome your thoughts and suggestions.

Proposed California Higher Education Health Professions Steering Committee

WHAT: To align the work of the California Future Health Workforce Commission with the needs of the state's public higher educational systems, the leaders of the UC, CSU, and CCC should consider appointing a small, high level intersegmental steering committee, composed of senior administrative leaders, with expertise in health professions education to take on several major tasks. Among these, the members of the steering committee would:

- (1) be accountable to their respective system leader for managing whatever internal planning process is deemed most appropriate for meeting the needs of each segment as this relates to their own priorities and goals;

Appendix A – Memo Summarizing the Steering Committee Scope of Work (continued)

- (2) serve individually and collectively in an ongoing liaison capacity to the Commission to assure that the information provided to the Commission and discussions occurring as part of their deliberations are communicated in a timely way to help inform planning efforts/internal discussions within each segment/system;
- (3) prepare an inventory of health education programs offered by each segment; and
- (4) meet together to share information about the priorities and challenges within each system as these relate to health professions education, including any planned/desired changes in the size (e.g., enrollment) or scope of their programs.

WHY: The Commission is charged with developing a blueprint to ensure that California’s workforce is ready and prepared to meet the current and future needs of the people of California. As part of this endeavor, recommendations will be developed to help guide policymakers, providers, educators and state and community leaders with the implementation of sustainable, forward-looking strategies. Critical to the success of this effort will be the development and articulation of plans, priorities and resource needs that will enable California’s public higher educational segments – UC, CSU, and CCC – to successfully prepare future generations of health professionals to meet state needs.

Because the UC, CSU, and CCC systems differ so substantially in size and scope of health-related educational programs, and because the systems likely have unique priorities that will be best addressed by leadership within each segment – but then should also be shared with the leadership across all three segments – a small steering committee could serve as the locus for discussion and informational exchange. Other tasks could be managed or taken on by the steering committee as necessary or desired.

WHO, HOW, and WHEN: If this approach seems reasonable, the next steps would be for the leaders of each system to identify their own representative (by no later than December 15) for this intersegmental effort. I would be happy to serve in this role for UC and would then set up an initial conference call in early January to talk about how best to align our work and plans.

This timing would be a month before the third meeting of the Commission (February 13, 2018). This would allow time for some internal discussion within each segment and would enable us to think together about approaches to this effort. This would also keep these efforts under the overall umbrella of the Commission, yet would allow for the flexibility and differences across the UC, CSU, and CCC systems. In view of past issues and experiences related to California’s Master Plan for Higher Education, it might also be helpful to adopt a set of principles to help guide the work of the steering committee. An initial draft follows on Page 3.

Appendix A – Memo Summarizing the Steering Committee Scope of Work (continued)

DRAFT

Suggested Principles to Help Guide Future Higher Education Planning

Quality. The quality of California’s health professions educational programs should be preserved and enhanced. Growth in existing programs and creation of new ones should ensure that sufficient resources are available to enable teaching institutions to maintain the infrastructure necessary to support the education, research, and public service missions that are vital public resources.

Workforce Needs. To the extent possible, UC, CSU, and CCC segments should seek to develop educational programs and enrollment plans that are aligned with the California Future Health Workforce Commission to help address state and/or national health workforce needs.

Fiscal Stability. Higher education segments will require resources to adequately train the health workforce of tomorrow. Future changes in the size and scope of health professions training programs should recognize the inherent costs associated with teaching programs involving patient care and should include mechanisms to supplement (rather than supplant) existing resources.

Leveraging Skills and Qualifications. California’s future health workforce should enable health care professionals to practice to the full extent and range of skills for which they have been educated, trained and credentialed.

California Master Plan Considerations. For more than half a century, the California Master Plan for Higher Education has provided a valuable framework for higher education that defines specific roles for each of California’s public higher education segments. Changes in health professions education, including those driven by accreditation requirements and workforce demand, have raised new challenges that will require further consideration.

Delivery System Transformation. Changes in the future workforce should, to the extent possible, advance or promote clinical integration and inter-professional, team-based care.

Appendix B – Steering Committee Members

Cathryn L. Nation, MD (Chair)
Associate Vice President – Health Sciences
UC Health
University of California, Office of the President

Christine Mallon, PhD
Assistant Vice Chancellor, Academic Programs and Faculty Development and
State University Dean, Academic Programs
CSU Office of the Chancellor

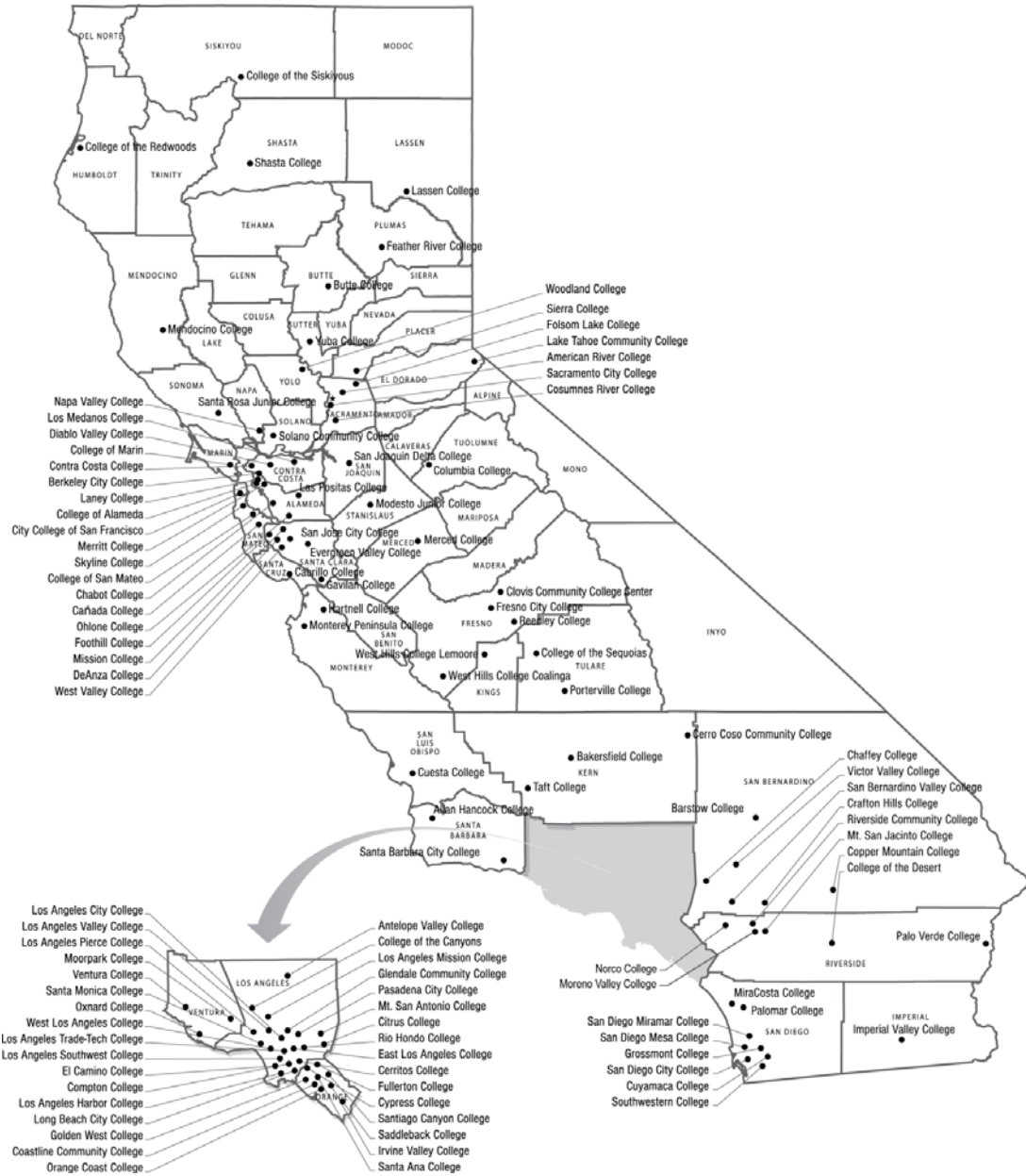
Jeffrey Mrizek, MBA, EdD
Dean of Effective Practices
Workforce and Economic Development Division
California Community Colleges Chancellor's Office

Executive Staff to the Steering Committee

Lydia Yu, MHS
Coordinator, Health Sciences Policy and Legislation
UC Health
University of California, Office of the President

Appendix C – State maps showing campus locations for each public higher education system

California Community College Campuses



Appendix C (continued)

California State University Campuses



Appendix C (continued)

University of California Campuses



Appendix D – California Community College System – Campus-Level Data

Due to the large number of community college campuses, programs and award types, campus level data are not included in this Appendix for the California Community College System. Data are available upon request.

Appendix E

California State University (CSU) System – Campus-Level Data

CSU (Health Related) Degrees awarded by campus, 2016-17

	East Bay		Monterey Bay		Pomona	
	Bachelor's	Master's	Bachelor's	Master's	Bachelor's	Master's
Generic Major Title						
Applied Behavior Analysis	.	.	.	.	.	.
Audiology	.	.	.	.	.	.
Behavioral Science	.	.	.	.	.	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.	.
Clinical/Community Psychology	.	.	.	.	.	.
Communicative Disorders	22	27	.	.	.	.
Counseling Psychology	.	.	.	.	.	.
Counseling and Guidance	.	41	.	.	.	.
Dietetics/Food Admin/Nutrition	.	.	.	.	92	.
Doctor of Nursing Practice	.	.	.	.	.	.
Doctor of Physical Therapy	.	.	.	.	.	.
Environmental/Occup Health	.	.	.	.	.	.
Gerontology						
Genetic Counseling	.	.	.	.	.	.
Health Care Mgmt/Admin	.	153	.	.	.	.
Health Science/Health Studies	369	.	.	.	.	.
Human Development	164	.	.	.	.	.
Human Factors/Ergonomics	.	.	.	.	.	.
Human Services, Collaborative	.	.	117	.	.	.
MPH Public Health and MSW Social Work (concurrent)	.	.	.	.	.	.
Medical Physics/Radiological Health Physics	.	.	.	.	.	.
Nursing (RN-to-Nursing Degree)	46	.	38	.	.	.
Nursing, Pre-Licensure	138	.	.	.	.	.
Occupational Therapy	.	.	.	.	.	.
Psychology	267	.	243	.	154	15
Public Health	.	.	.	.	.	.
Radiologic Sciences	.	.	.	.	.	.
Rehabilitation Counseling	.	.	.	.	.	.
School Psychology	.	.	.	.	.	.
Social Work	.	90	.	36	.	.
Speech Language Pathology (Entry-Ready)	.	.	.	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.	.
All	1,006	311	398	36	246	15

Appendix E CSU – Campus-Level Data (continued)

	San Luis Obispo		Chico		Fresno		
	Bachelor's	Master's	Bachelor's	Master's	Bachelor's	Doctorate	Master's
Generic Major Title							
Applied Behavior Analysis
Audiology
Behavioral Science
Clinical/Biomedical Laboratory Science
Clinical/Community Psychology
Communicative Disorders	.	.	63	.	133	.	44
Counseling Psychology
Counseling and Guidance	112
Dietetics/Food Admin/Nutrition	85	1	81	7	.	.	.
Doctor of Nursing Practice	21	.
Doctor of Physical Therapy	34	.
Environmental/Occup Health
Gerontology							
Genetic Counseling
Health Care Mgmt/Admin
Health Science/Health Studies	.	.	124	.	223	.	4
Human Development
Human Factors/Ergonomics
Human Services, Collaborative
MPH Public Health and MSW Social Work (concurrent)
Medical Physics/Radiological Health Physics
Nursing (RN-to-Nursing Degree)	.	.	26	9	131	.	34
Nursing, Pre-Licensure	.	.	78	.	5	.	.
Occupational Therapy
Psychology	137	11	243	33	293	.	14
Public Health	2
Radiologic Sciences
Rehabilitation Counseling	23
School Psychology	9
Social Work	.	.	95	40	119	.	65
Speech Language Pathology (Entry-Ready)	.	.	.	23	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)
All	222	12	710	112	904	55	307

Appendix E CSU – Campus-Level Data (continued)

Generic Major Title	Humboldt		Bakersfield		Long Beach		
	Bachelor's	Master's	Bachelor's	Master's	Bachelor's	Doctorate	Master's
Applied Behavior Analysis
Audiology
Behavioral Science
Clinical/Biomedical Laboratory Science
Clinical/Community Psychology
Communicative Disorders
Counseling Psychology	.	.	.	16	.	.	.
Counseling and Guidance	.	.	.	36	.	.	76
Dietetics/Food Admin/Nutrition	76	.	24
Doctor of Nursing Practice
Doctor of Physical Therapy	34	.
Environmental/Occup Health
Gerontology	9
Genetic Counseling
Health Care Mgmt/Admin	.	.	.	16	313	.	51
Health Science/Health Studies	216	.	.
Human Development	274	.	.
Human Factors/Ergonomics
Human Services, Collaborative
MPH Public Health and MSW Social Work (concurrent)
Medical Physics/Radiological Health Physics
Nursing (RN-to-Nursing Degree)	.	.	39	.	71	.	82
Nursing, Pre-Licensure	.	.	50	.	155	.	30
Occupational Therapy
Psychology	178	19	127	.	484	.	28
Public Health	16
Radiologic Sciences
Rehabilitation Counseling
School Psychology	17
Social Work	77	62	.	67	72	.	222
Speech Language Pathology (Entry-Ready)	37
Speech Language Pathology (Without Communicative Disorders Background)	52	.	.
All	255	81	216	135	1,713	34	592

Appendix E CSU – Campus-Level Data (continued)

	Los Angeles		Fullerton			Dominguez Hills	
	Bachelor's	Master's	Bachelor's	Doctorate	Master's	Bachelor's	Master's
Generic Major Title							
Applied Behavior Analysis	.	.	.	.	.	.	.
Audiology	.	.	.	.	.	.	.
Behavioral Science	.	.	.	.	.	23	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.	44	.
Clinical/Community Psychology	.	.	.	.	.	.	.
Communicative Disorders	160	18	127	.	31	.	.
Counseling Psychology	.	.	.	.	.	.	.
Counseling and Guidance	.	80	.	.	59	.	20
Dietetics/Food Admin/Nutrition	95	22	.	.	.	.	.
Doctor of Nursing Practice	.	.	.	16	.	.	.
Doctor of Physical Therapy	.	.	.	.	.	.	.
Environmental/Occup Health	.	.	.	.	.	.	.
Gerontology							
Genetic Counseling	.	.	.	.	.	.	.
Health Care Mgmt/Admin	.	30	.	.	.	.	.
Health Science/Health Studies	.	.	441	.	.	165	20
Human Development	.	.	.	.	.	.	.
Human Factors/Ergonomics	.	.	.	.	.	.	.
Human Services, Collaborative	.	.	278	.	.	133	.
MPH Public Health and MSW Social Work (concurrent)	.	.	.	.	.	.	.
Medical Physics/Radiological Health Physics	.	.	.	.	.	.	.
Nursing (RN-to-Nursing Degree)	37	83	221	.	79	145	70
Nursing, Pre-Licensure	145	.	60	.	2	31	1
Occupational Therapy	.	.	.	.	.	.	65
Psychology	299	13	567	.	25	322	9
Public Health	170	.	.	.	23	.	.
Radiologic Sciences	.	.	.	.	.	.	.
Rehabilitation Counseling	112	.	.	.	.	.	.
School Psychology	.	.	.	.	.	.	.
Social Work	178	143	.	.	103	.	74
Speech Language Pathology (Entry-Ready)	.	.	.	.	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.	.	.
All	1,196	389	1,694	16	322	863	259

Appendix E CSU – Campus-Level Data (continued)

	Sacramento			San Bernardino	
	Bachelor's	Doctorate	Master's	Bachelor's	Master's
Generic Major Title					
Applied Behavior Analysis	.	.	.	.	.
Audiology	.	.	.	.	.
Behavioral Science	.	.	.	.	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.
Clinical/Community Psychology	.	.	.	.	.
Communicative Disorders	182	.	27	.	.
Counseling Psychology	.	.	.	.	.
Counseling and Guidance	.	.	66	.	54
Dietetics/Food Admin/Nutrition	.	.	.	42	.
Doctor of Nursing Practice	.	.	.	.	.
Doctor of Physical Therapy	.	29	.	.	.
Environmental/Occup Health	.	.	.	.	.
Gerontology	77				
Genetic Counseling	.	.	.	.	.
Health Care Mgmt/Admin	.	.	.	.	5
Health Science/Health Studies	180	.	.	142	.
Human Development	.	.	.	72	.
Human Factors/Ergonomics	.	.	.	.	.
Human Services, Collaborative	.	.	.	.	.
MPH Public Health and MSW Social Work (concurrent)	.	.	.	.	.
Medical Physics/Radiological Health Physics	.	.	.	.	.
Nursing (RN-to-Nursing Degree)	95	.	43	7	12
Nursing, Pre-Licensure	149	.	.	110	.
Occupational Therapy	.	.	.	.	.
Psychology	383	.	15	562	30
Public Health	.	.	.	.	7
Radiologic Sciences	.	.	.	.	.
Rehabilitation Counseling	.	.	.	.	11
School Psychology	.	.	.	.	.
Social Work	199	.	109	59	105
Speech Language Pathology (Entry-Ready)	.	.	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.
All	1,265	29	260	994	224

Appendix E CSU – Campus-Level Data (continued)

	San Diego			San Marcos	
	Bachelor's	Doctorate	Master's	Bachelor's	Master's
Generic Major Title					
Applied Behavior Analysis	.	.	.	.	.
Audiology	.	8	.	.	.
Behavioral Science	.	.	.	.	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.
Clinical/Community Psychology	.	12	.	.	.
Communicative Disorders	.	2	.	.	.
Counseling Psychology	.	.	.	.	.
Counseling and Guidance	.	.	47	.	.
Dietetics/Food Admin/Nutrition	114	.	9	.	.
Doctor of Nursing Practice	.	.	.	.	.
Doctor of Physical Therapy	.	34	.	.	.
Environmental/Occup Health	.	.	.	.	.
Gerontology	16	.	1	.	.
Genetic Counseling	.	.	.	.	.
Health Care Mgmt/Admin	.	.	.	.	.
Health Science/Health Studies	.	.	.	.	.
Human Development	.	.	.	304	.
Human Factors/Ergonomics	.	.	.	.	.
Human Services, Collaborative	.	.	.	.	.
MPH Public Health and MSW Social Work (concurrent)	.	.	2	.	.
Medical Physics/Radiological Health Physics	.	.	2	.	.
Nursing (RN-to-Nursing Degree)	58	.	27	185	23
Nursing, Pre-Licensure	144	.	.	180	.
Occupational Therapy	.	.	.	.	.
Psychology	569	.	37	200	10
Public Health	.	13	89	.	.
Radiologic Sciences	.	.	.	.	.
Rehabilitation Counseling	.	.	15	.	.
School Psychology	.	.	15	.	.
Social Work	94	.	131	.	58
Speech Language Pathology (Entry-Ready)	102	.	38	.	31
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.
All	1,097	69	413	869	122

Appendix E CSU – Campus-Level Data (continued)

	Northridge			Channel Islands	San Francisco		
	Bachelor's	Doctorate	Master's	Bachelor's	Bachelor's	Doctorate	Master's
Generic Major Title							
Applied Behavior Analysis	.	.	29	.	.	.	.
Audiology	.	.	.	.	.	.	.
Behavioral Science	.	.	.	.	.	.	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.	.	.
Clinical/Community Psychology	.	.	.	.	.	.	.
Communicative Disorders	103	.	61	.	97	.	32
Counseling Psychology	.	.	.	.	.	.	.
Counseling and Guidance	.	.	103	.	.	.	60
Dietetics/Food Admin/Nutrition	.	.	.	.	32	.	.
Doctor of Nursing Practice	.	.	.	.	.	.	.
Doctor of Physical Therapy	.	28	.	.	.	52	.
Environmental/Occup Health	50	.	18	.	.	.	.
Gerontology							13
Genetic Counseling	.	.	.	.	.	.	.
Health Care Mgmt/Admin	207	.	16	.	.	.	.
Health Science/Health Studies	.	.	.	43	120	.	.
Human Development	.	.	.	.	.	.	.
Human Factors/Ergonomics	.	.	.	.	.	.	.
Human Services, Collaborative	.	.	.	.	.	.	.
MPH Public Health and MSW Social Work (concurrent)	.	.	.	.	.	.	.
Medical Physics/Radiological Health Physics	.	.	.	.	.	.	.
Nursing (RN-to-Nursing Degree)	39	.	.	29	14	.	16
Nursing, Pre-Licensure	56	.	.	84	102	.	19
Occupational Therapy	.	.	.	.	.	.	.
Psychology	839	.	26	305	313	.	44
Public Health	210	.	54	.	.	.	22
Radiologic Sciences	24	.	.	.	.	.	.
Rehabilitation Counseling	.	.	.	.	.	.	.
School Psychology	.	.	.	.	.	.	.
Social Work	.	.	178	.	25	.	31
Speech Language Pathology (Entry-Ready)	.	.	46	.	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.	.	.
All	1,528	28	531	461	703	52	237

Appendix E CSU – Campus-Level Data (continued)

	San José		Sonoma		Stanislaus	
	Bachelor's	Master's	Bachelor's	Master's	Bachelor's	Master's
Generic Major Title						
Applied Behavior Analysis	.	.	.	.	.	.
Audiology	.	.	.	.	.	.
Behavioral Science	64	.	.	.	.	.
Clinical/Biomedical Laboratory Science	.	.	.	.	.	.
Clinical/Community Psychology	.	.	.	.	.	.
Communicative Disorders	36	.	.	.	.	.
Counseling Psychology	.	.	.	.	.	.
Counseling and Guidance	.	.	.	36	.	.
Dietetics/Food Admin/Nutrition	81	10	.	.	.	.
Doctor of Nursing Practice	.	.	.	.	.	.
Doctor of Physical Therapy	.	.	.	.	.	.
Environmental/Occup Health	.	.	.	.	.	.
Gerontology						
Genetic Counseling	.	.	.	.	.	9
Health Care Mgmt/Admin	.	.	.	.	.	.
Health Science/Health Studies	.	.	.	.	32	.
Human Development	.	.	53	.	.	.
Human Factors/Ergonomics	.	16	.	.	.	.
Human Services, Collaborative	.	.	.	.	.	.
MPH Public Health and MSW Social Work (concurrent)	.	.	.	.	.	.
Medical Physics/Radiological Health Physics	.	.	.	.	.	.
Nursing (RN-to-Nursing Degree)	41	19	41	41	16	3
Nursing, Pre-Licensure	118	.	25	.	84	.
Occupational Therapy	1	81	.	.	.	.
Psychology	373	22	204	11	279	20
Public Health	.	35	.	.	.	.
Radiologic Sciences	.	.	.	.	.	.
Rehabilitation Counseling	.	.	.	.	.	.
School Psychology	.	.	.	.	.	.
Social Work	68	88	.	.	.	66
Speech Language Pathology (Entry-Ready)	.	.	.	.	.	.
Speech Language Pathology (Without Communicative Disorders Background)	.	.	.	.	.	.
All	782	271	323	88	411	98

Appendix F – Additional Information Describing CSU Health-Related Degree Programs

CSU Health-Related Degree Program Enrollments, by Ethnicity and Sex—Fall 2016

CSU Health-Related Enrollments, by Ethnicity and Sex--Fall 2016

Health Professions

Systemwide State-Support Enrollment (State) All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	258	1,100	1,358
American Indian	12	40	52
Asian	1,786	5,052	6,838
Hispanic/Latino	1,766	7,890	9,656
Pacific Islander	21	66	87
White	1,096	5,189	6,285
Two or More Races	242	901	1,143
Unknown	269	989	1,258
Non-Resident Alien	179	620	799
All Ethnic Groups	5,629	21,847	27,476

Health Professions

Systemwide Self-Support Enrollment (Extension) All Matriculants, All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	14	79	93
American Indian	1	4	5
Asian	91	377	468
Hispanic/Latino	75	398	473
Pacific Islander	2	7	9
White	118	600	718
Two or More Races	15	81	96
Unknown	58	272	330
Non-Resident Alien	4	20	24
All Ethnic Groups	378	1,838	2,216

Psychology

Systemwide State-Support Enrollment (State) All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	348	1,263	1,611
American Indian	25	72	97
Asian	936	2,123	3,059
Hispanic/Latino	3,208	11,726	14,934
Pacific Islander	12	51	63
White	1,491	4,955	6,446
Two or More Races	317	1,043	1,360
Unknown	325	936	1,261
Non-Resident Alien	243	921	1,164
All Ethnic Groups	6,905	23,090	29,995

Psychology

Systemwide Self-Support Enrollment (Extension) All Matriculants, All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	3	15	18
American Indian	1	0	1
Asian	6	10	16
Hispanic/Latino	22	68	90
Pacific Islander	0	0	0
White	21	47	68
Two or More Races	0	6	6
Unknown	2	29	31
Non-Resident Alien	3	9	12
All Ethnic Groups	58	184	242

Gerontology

Systemwide State-Support Enrollment (State) All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	3	23	26
American Indian	0	0	0
Asian	12	93	105
Hispanic/Latino	8	86	94
Pacific Islander	1	4	5
White	7	65	72
Two or More Races	4	10	14
Unknown	2	18	20
Non-Resident Alien	2	7	9
All Ethnic Groups	39	306	345

Gerontology

Systemwide Self-Support Enrollment (Extension) All Matriculants, All Levels, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	0	0	0
American Indian	0	0	0
Asian	0	0	0
Hispanic/Latino	0	0	0
Pacific Islander	0	0	0
White	0	0	0
Two or More Races	0	0	0
Unknown	0	0	0
Non-Resident Alien	0	0	0
All Ethnic Groups	0	0	0

*Final fall data used in college year reporting.

*Final fall data used in college year reporting.

Note: Data may include individuals who enrolled in both ERSS (state-support) and sERSS (self-support).

Appendix F – Additional Information Describing CSU Health-Related Degree Programs (continued)

CSU Enrollments in Nursing Degree Programs, by Ethnicity and Sex, Fall 2016

CSU Nursing Enrollments, by Ethnicity and Sex--Fall 2016

Nursing (Pre-Licensure)

Systemwide State-Support Enrollment (State) Bachelor's and Master's, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	19	87	106
American Indian	2	8	10
Asian	359	1,022	1,381
Hispanic/Latino	194	878	1,072
Pacific Islander	4	12	16
White	224	1,096	1,320
Two or More Races	45	186	231
Unknown	54	171	225
Non-Resident Alien	16	65	81
All Ethnic Groups	917	3,525	4,442

*Final fall data used in college year reporting.

Nursing (Pre-Licensure)

Systemwide Self-Support Enrollment (Extension) Bachelor's and Master's, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	4	13	17
American Indian	0	1	1
Asian	34	123	157
Hispanic/Latino	15	99	114
Pacific Islander	1	1	2
White	34	164	198
Two or More Races	6	21	27
Unknown	18	68	86
Non-Resident Alien	0	8	8
All Ethnic Groups	112	498	610

*Final fall data used in college year reporting.

Nursing RN to Nursing Degree (Post-Licensure)

Systemwide State-Support Enrollment (State) Bachelor's and Master's, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	20	155	175
American Indian	0	7	7
Asian	188	663	851
Hispanic/Latino	137	657	794
Pacific Islander	1	9	10
White	137	726	863
Two or More Races	15	88	103
Unknown	32	169	201
Non-Resident Alien	12	38	50
All Ethnic Groups	542	2,512	3,054

*Final fall data used in college year reporting.

Nursing RN to Nursing Degree (Post-Licensure)

Systemwide Self-Support Enrollment (Extension) Bachelor's and Master's, Final Fall 2016*

Ethnic Group	Sex		Total
	M	F	
African American	3	27	30
American Indian	0	1	1
Asian	34	146	180
Hispanic/Latino	23	157	180
Pacific Islander	1	2	3
White	30	202	232
Two or More Races	3	26	29
Unknown	19	105	124
Non-Resident Alien	0	4	4
All Ethnic Groups	113	670	783

*Final fall data used in college year reporting.

Doctor of Nursing Practice

Systemwide State-Support Enrollment (ERSS) Final Fall 2016*

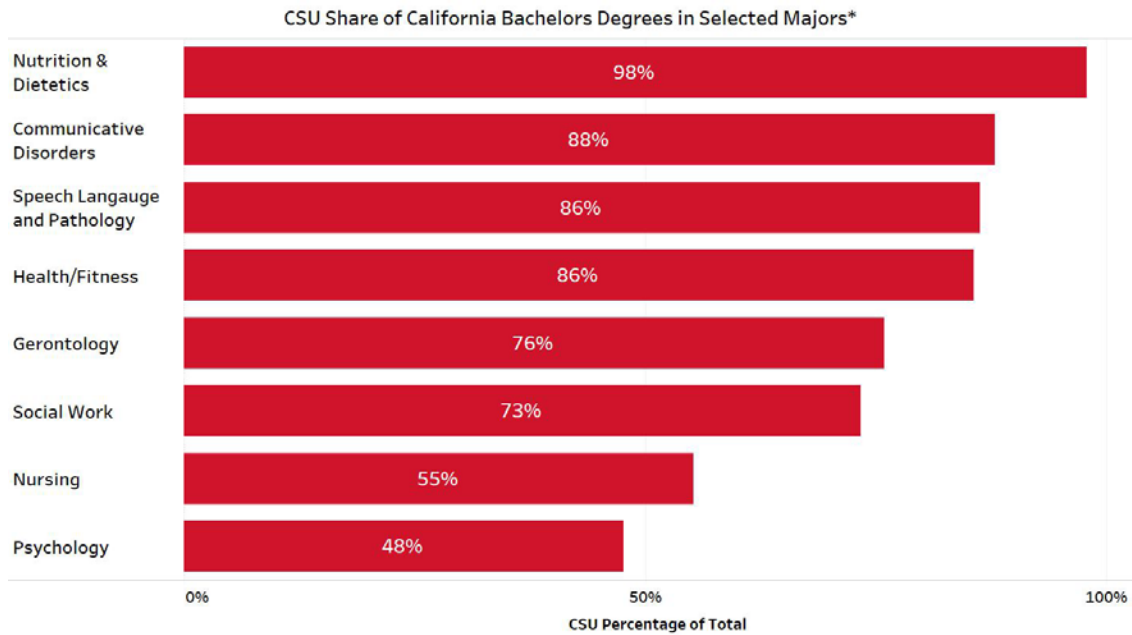
Ethnic Group	Sex		Total
	M	F	
African American	1	10	11
American Indian	0	0	0
Asian	8	22	30
Hispanic/Latino	0	13	13
Pacific Islander	0	0	0
White	9	29	38
Two or More Races	0	1	1
Unknown	0	5	5
Non-Resident Alien	0	1	1
All Ethnic Groups	18	81	99

*Final fall data used in college year reporting.

Note: Data may include individuals who enrolled in both state-support and self-support.

Appendix F – Additional Information Describing CSU Health-Related Degree Programs (continued)

CSU Share of California Bachelor's Degrees in Selected Health-Related Degree Programs



Source: IPEDS Completions Survey (2016)

*Includes California Public and Private Non-Profit institutions

Appendix G – University of California System – Campus-Level Data

UC (Health Related) Degrees awarded by campus, 2016-17

Generic Major Title/Degree Awarded	Berkeley	Davis	Irvine	UCLA	Riverside	San Diego	San Francisco	Merced	Santa Barbara	Santa Cruz	UC TOTAL
Audiology (AuD)						8					8
Dental Hygiene							9				9
Doctor of Dental Surgery (DDS)				107			107				214
Doctor of Medicine (MD)		99	99	182	40	129	157				706
Doctor of Optometry (OD)	58										58
Doctor of Pharmacy (PharmD)						61	115				176
Doctor of Physical Therapy (DPT)							52				52
Doctor of Veterinary Medicine (DVM)		136									136
Nursing		39	72	222			131				464
Nutrition	99	230									329
Physician Assistant		19									19
Psychology	361	753	887	1,134	456	404		224	722	462	5,403
Public Health	400	40	581	236		188		35			1,480
Social Welfare	240			111							351
TOTAL UC Degrees Granted, by campus	1,158	1,316	1,639	1,992	496	790	571	259	722	462	9,405

Appendix H – Additional Information Describing UC Residency Programs

Residents are professional school graduates (i.e., from dental, medical, optometry, pharmacy and veterinary medical schools) who participate in specialty, post-graduate training programs after completing their professional degree programs.

In addition to educating health sciences students in academic degree and professional degree programs, UC trains residents in several health professions.

University of California

Health Profession	Estimated Enrollments in Residency Programs, Fall 2017
Dentistry	186
Medicine	4,761
Optometry	19
Pharmacy	49
Veterinary Medicine	108
Total	5,123